Bounceback - the Problem

Configure Your New Computer							
Select a CPU	Select a Disk Drive	Select a Memory					
○ 500 MHz	O 10 GB	○ 64 MB					
○ 600 MHz	O 20 GB	○ 128 MB					
700 MHz	30 GB	·					

Constraints of the Configuration System

K1: Compatible <CPU, Disk Drive> 500 MHz 10 or 20 GB

K2: Compatible <CPU, Disk Drive> 600 MHz 20 GB

K3: Compatible < CPU, Disk Drive > 700 MHz 30 GB

User selects the 500 MHz CPU

Configure Your New Computer								
Select a CPU	Select a Disk Drive	Select a Memory						
● 500 MHz	O 10 GB	○ 64 MB						
○ 600 MHz	O 20 GB	○ 128 MB						
○ 700 MHz	○ 30 GB							

Another Example of Bounceback

Configure Your New Computer							
Select a CPU	Select a Disk Drive	Select a Memory					
○ 700 MHz	O 20 GB	○ 64 MB					
O 900 MHz	○ 40 GB	○ 128 MB					

Constraints of the Configuration System

K1: Compatible <CPU, Disk Drive> 700 MHz 20 GB; 900 MHz 40 GB K2: Compatible <Disk Drive, Memory> 20 GB 64 MB; 40 GB 128 MB K3: Compatible <Memory, CPU> 64 MB 700 MHz; 128 MB 900 MHz

User selects the 700 MHz CPU - the 900 MHz CPU cannot be selected

Configure Your New Computer							
Select a CPU	Select a Disk Drive	Select a Memory					
700 MHz	O 20 GB	○ 64 MB					
○ 900 MHz	40 GB	128 MB					

The Invention eliminates incompatibility due solely to Bounceback

User selects the 700 MHz CPU - the 900 MHz CPU remains an available selection

Configure Your New Computer							
Select a CPU	Select a Disk Drive	Select a Memory					
● 700 MHz	O 20 GB	○ 64 MB					
○ 900 MHz	○ 40 GB	128 MB					

The Invention Handles Multiple User Inputs

	Configure Your New Computer								
Sel	ect a CPU	Select a Disk Drive		Select a Memory		Select a Disk Controller			
0	700 MHz	0	20 GB	0	64 MB	0	DC 1		
0	900 MHz	0	40 GB	0	128 MB	0	DC 2		

Constraints of the Configuration System

K1: Compatible <CPU, Disk Drive> 700 MHz 20 GB; 900 MHz 40 GB
K2: Compatible <Disk Drive, Memory> 20 GB 64 MB; 40 GB 128 MB
K3: Compatible <Memory, CPU> 64 MB 700 MHz; 128 MB 900 MHz
K4: Compatible <Disk Drive, Disk Controller> 20 GB DC 1; 40 GB DC 2

User selects the 700 MHz CPU and the DC 1

	Configure Your New Computer							
•	700 MHz	0	20 GB	0	64 MB	•	DC 1	
0	900 MHz	0	40 GB	0	128 MB	0	DC 2	

Here, the 900 MHz CPU is eliminated by the selection of DC 1 as well as by bounceback from the selection of the 700 MHz CPU; accordingly, the 900 MHz CPU is incompatible with the user's selections